

ABSTRACT

An exhaust gas deNO_x apparatus, which can make an NO_x adsorber catalyst compact and does not impair reliability of an engine, is provided. To this end, the apparatus is provided with an NO_x adsorber catalyst (9) for adsorbing and releasing NO_x, and an exhaust gas recirculating circuit for mixing an exhaust gas into intake air, and exhaust gas recirculating amount control means (20, 20f) for recirculating a predetermined amount of the exhaust gas for reducing NO_x when the adsorbed NO_x accumulation amount is a predetermined value or less, and recirculating the aforementioned predetermined amount or more of exhaust gas to bring an air fuel ratio into a rich state when the adsorbed NO_x accumulation amount exceeds a predetermined value and is to be released.